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(21)Application number: **07-012293** (71)Applicant: **HITACHI LTD**

(22) Date of filing: 30.01.1995 (72) Inventor: YAMAOKA HIROMASA

WATABE MITSURU KASAHARA TAKAYASU SHIBATA KATSUNARI MATSUBARA KIYOSHI MOROOKA YASUO FUNABASHI SEIJU

(54) DECENTRALIZED CONTROL UNIT, SYSTEM, AND CONTROLLER

(57) Abstract:

PURPOSE: To provide a controller which has many kinds of various control function for a decentralized control system. CONSTITUTION: Controllers 1-6 consist of plural processors which perform numerical operation, sequence operation, neural net(NN) operation, fuzzy operation, etc. The controllers 1-6 are reduced in size by the configuring technology with LSI. Further, processor functions and I/O functions are made programmable to increase flexibility. A program incorporates a simple standard program and learnt models of the NN, etc., and weights and adds plural calculated outputs to generate output data. Further, the value of weighting is updated by learning. Consequently, the decentralized control system having many kinds of various control function such as numerical operation control, sequence control, NN application control, and fuzzy application control and the controllers used for them can be provided.

